Dr. Stephan Randolph Kawa

Physical Scientist
Atmospheric Chemistry and Dynamics Branch
NASA Goddard Space Flight Center

RESEARCH AREA EXPERIENCE: Chemistry, transport, and microphysics of atmospheric trace species; development of numerical models for analysis of data and comparison of theory and observations.

EDUCATION:

1988 - Ph.D. -	Colorado State University, Department of Atmospheric Science
1985 - M.S. -	Colorado State University, Department of Atmospheric Science
1972 - B.A. -	University of Chicago, Biology

PREVIOUS POSITIONS:

1979 - 1981	Senior Field Technician, Air Quality Monitoring, Aerovironment Inc., Monrovia, CA
1981 - 1988	Graduate Research Assistant, Department of Atmospheric Science, Colorado State University, Fort Collins
1988 - 1992	Research Associate, Aeronomy Laboratory, National Oceanic and Atmospheric Administration, and Cooperative Institute for Research in Environmental Science, University of Colorado, Boulder
1992 - 1995	Associate Research Scientist, Universities Space Research Association, Atmospheric Chemistry and Dynamics Branch, NASA Goddard Space Flight Center, Greenbelt, MD
1995 - Present	Physical Scientist, Atmospheric Chemistry and Dynamics Branch, NASA Goddard Space Flight Center, Greenbelt, MD

PROFESSIONAL SOCIETY MEMBERSHIPS: American Geophysical Union, 1983 - present
American Meteorological Society, 1981 - present; Colorado State University Chapter President, 1984-1985

AWARDS:

1983	Colorado Fellowship
1991-2001	NASA Group Achievement Awards (6)
1994	AGU Editor's Citation for Excellence in Refereeing
1995	NOAA ERL Outstanding Scientific Paper Award
1998	Distinguished Graduate Award, National Catholic Educational Association
1998	Goddard Laboratory for Atmospheres, Scientific Achievement (Peer) Award
2006	NASA Honor Group Achievement Award: UARS Team
2006	Goddard Laboratory for Atmospheres, Technology Achievement (Peer) Award
2007	Goddard Special Act Award for Leading Mission Concept Study

SPECIAL EXPERIENCE:

1) Goddard's Laboratory for Atmospheres representative to NASA Carbon Science Task Force, 1999-present.
2) Science Lead: Earth Science Mission Concept Study for Multi-spectral Atmospheric Composition, 2006.
3) NASA Atmospheric Effects of Aviation Project, Project Manager, 1996-1997, Project Scientist, 1997-1999.
4) Principal Investigator: eight NASA funded proposals, 1991-present; co-investigator on eleven others.
5) Participant in cooperative field research programs including DYCOMS, AASE, AASE-II, SPADE, ASHOE/MAESA, STRAT, SONEX, POLARIS, SOLVE, AVE, TC^4. Member of leadership planning team for POLARIS and SOLVE.
6) Co-author of UNEP/WMO Scientific Assessment of Ozone Depletion: 1998, 2006.
7) Convener, AGU Special Sessions: Space Observations of Atmospheric CO_2, 2007; Atmospheric Effects of Aviation, 1998; Stratospheric Chemistry and Dynamics, 1994.
8) Involved in design and construction of instrumentation for eddy flux measurement

of ozone, NO/NOy in the stratosphere, and remote sensing of column CO_2 by both passive and active methods. Orbiting Carbon Observatory science team.

9) Ph.D. student committee member at State University of New York, Stony Brook. Mentor for NASA Graduate Student Research Program, NASA/ASEE Summer Faculty Fellowship Program, Maryland Earth and Environmental Science Teacher Ambassador Program, USRA Graduate Student Summer Program, and CIRES undergraduate student research intern.

OTHER REPORTS, PAPERS: